

INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/GB2004/004143

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F02B25/22 F02M13/04 F02D9/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F02B F02M F02D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99/58829 A (RICARDO CONSULTING ENGINEERING) 18 November 1999 (1999-11-18) cited in the application abstract page 16, line 9 - page 17, line 21; figures 4-6	1
A	DE 200 20 655 U (DOLMAR GMBH) 22 February 2001 (2001-02-22) page 11, line 12 - page 12, line 3; figure 1 abstract	1
A	US 2003/106508 A1 (ROSSKAMP) 12 June 2003 (2003-06-12) paragraph 27 - page 3, paragraph 28; figure 3 abstract	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

16 December 2004

Date of mailing of the international search report

23/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Van Zoest, A

INTERNATIONAL SEARCH REPORT

Int Application No
PCT/GB2004/004143

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) & JP 2001 295652 A (ZAMA JAPAN KK), 26 October 2001 (2001-10-26) abstract; figure 1</p> <p style="text-align: center;">-----</p>	1

INTERNATIONAL SEARCH REPORT

In Application No
PCT/GB2004/004143

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9958829	A	18-11-1999	AT 266807 T	15-05-2004
			AT 229617 T	15-12-2002
			DE 69904467 D1	23-01-2003
			DE 69904467 T2	30-10-2003
			DE 69917345 D1	17-06-2004
			DK 1221545 T3	06-09-2004
			DK 1078151 T3	07-04-2003
			EP 1221545 A2	10-07-2002
			EP 1078151 A1	28-02-2001
			ES 2189417 T3	01-07-2003
			WO 9958829 A1	18-11-1999
			JP 3396814 B2	14-04-2003
			JP 2002514708 T	21-05-2002
			JP 2003074352 A	12-03-2003
			US 6101991 A	15-08-2000
DE 20020655	U	22-02-2001	DE 20020655 U1	22-02-2001
			DE 10157579 A1	01-08-2002
			IT RM20010709 A1	04-06-2003
			SE 523367 C2	13-04-2004
			SE 0104106 A	07-06-2002
			US 2002088412 A1	11-07-2002
US 2003106508	A1	12-06-2003	DE 10160539 A1	26-06-2003
			FR 2833304 A1	13-06-2003
			GB 2384822 A ,B	06-08-2003
			JP 2003193911 A	09-07-2003
JP 2001295652	A	26-10-2001	NONE	